4.5.% 连盟

|                | ISSUE SLIP STAPLE AREA (for additional cross-references)  ISSUING CLASSIFICATION |                            |             |                |          |  |          |           |          |                |              |                |           |           |                                   |           |          |           |          |           |          |           |            |          |          |           |            |           |              |           |           |
|----------------|--|----------------------------|-------------|----------------|----------|--|----------|-----------|----------|----------------|--------------|----------------|-----------|-----------|-----------------------------------|-----------|----------|-----------|----------|-----------|----------|-----------|------------|----------|----------|-----------|------------|-----------|--------------|-----------|-----------|
|                |  |                            | _           | ORIG           |          | ISSUING CLASSIFICATION  CROSS REFERENCE(S) |          |           |          |                |              |                |           |           |                                   |           |          |           |          |           |          |           |            |          |          |           |            |           |              |           |           |
|                | CLASS SUBCLASS   |                            |             |                |          |  |          |           |          | CLASS          |              |                |           |           | SUBCLASS (ONE SUBCLASS PER BLOCK) |           |          |           |          |           |          |           |            |          |          |           |            |           |              |           |           |
|                |  |                            |             |                |          |  |          |           |          | ] ]            |              |                |           |           |                                   |           |          |           |          |           |          |           |            |          |          | T         |            |           | _            |           |           |
|                |  |                            | INT         | ERNA           | TIO      | NAJ  |          | 7         |          |                | _            | 1              | _         | _         |                                   | $\dagger$ |          |           | -        | _         | -        | _         |            | +        |          |           | +          |           |              |           |           |
|                | CLASSIFICATION   |                            |             |                |          |  |          | İ         | _        | _              | _            | 1              |           |           |                                   | †-        | _        | -         | -        | _         | Ⅎ        | _         | _          | ╁        |          |           | ╀          |           | -            | _         |           |
|                |  | Ī                          | Τ           | Π              |          | 1  | _        | 7         |          |                |              | 1              | _         |           |                                   | $\vdash$  |          |           | _        |           | $\dashv$ |           |            | ╀        |          |           | ╀          |           | $\dashv$     |           |           |
|                | $\top$   | $\vdash$                   | $\vdash$    | $\vdash$       |          | 7  |          | 7         |          | _              |              | ┪              |           |           |                                   | -         |          | -         |          | _         | $\dashv$ |           |            | ╀        |          |           | L          |           | -            |           |           |
| ř.             | +  | T                          | 1           | $\vdash$       | _        | <u></u>                                    |          | +         |          |                | _            | +              | _         | _         |                                   | ├         |          | $\dashv$  |          |           | 4        |           |            | ╀        |          |           | L          |           | $\dashv$     |           |           |
|                | $\top$   | $\vdash$                   |             |                |          | <del>.</del>                               |          | ╅         |          |                |              | ╂              |           |           |                                   | -         |          | 4         |          | _         | 4        |           |            | L        |          | _         | _          |           | _            |           |           |
| }              | +  | ┝                          |             |                |          | <del>,</del>                               |          | +         | _        |                |              | ╂              |           |           |                                   | <u> </u>  |          | لـ        |          |           | 1        |           |            | L        |          |           |            |           | $\perp$      |           |           |
|                | Rejected - (Throug   |                            |             |                |          |  |          |           |          |                |              | NDEX OF CLAIMS |           |           |                                   |           |          |           |          |           |          |           |            |          |          | Jac       | <u>ket</u> |           |              |           |           |
|                |  |                            |             |                |          |  |          |           |          |                |              | . Ca           | anceled N |           |                                   |           |          |           | ••••     | No        | n-ele    | cted      | A          | A        |          |           | Appeal     |           |              |           |           |
| C              | Claim Date   |                            |             |                |          |  |          |           | Claim    |                |              |                | Date      |           |                                   |           |          |           |          | Claim     |          |           |            |          |          | Objected  |            |           | <u> </u>     |           |           |
| ا ا            | Original   | 15 m/om                    | 10/22/05    |                |          |  | -        |           |          | Final          | grad         | 5/3/23         | 13        |           |                                   | l         |          |           |          |           |          |           | 2          |          | 60/      |           |            | П         | T            | Т         | T         |
| Final          | δ  | 9                          | 10/2        |                |          | $\Box$                                     | 1        |           |          | E              | δ            | 20             | so/ec/o   |           |                                   |           |          |           | П        |           |          | E         | Original   |          | 10/00/03 |           |            |           |              |           |           |
|                | <b>Q</b>   | ٥                          | 튀           | Ŧ              | F        | П  | 7        | T         | 7        |                | 51<br>52     | Ξ              | Ξ         |           |                                   |           |          |           | $\Box$   |           |          |           | 101        |          | E        | Н         | $\vdash$   | $\dashv$  | $\dashv$     | +         | +-        |
| -, <u> </u>    | 3  | Ξ                          | Ш           | $\pm$          |          | H  | +        | +         | 1        |                | 52<br>53     | =              | Н         | Н         | <del> </del>                      | Н         | -        | _         | Н        | 4         |          | _         | 102<br>103 | Ц        | 1        |           |            | $\Box$    | $\exists$    | ユ         | 1         |
| Cc 1114        | 4  | =]                         | $\prod$     | $\bot$         | F        | П  | T        | T         | 1        | ب              | 54           | V              | П         |           |                                   |           |          |           |          |           | D        |           | 104        |          | Ξ        | Н         | $\dashv$   | $\dashv$  | +            | +         | ╁         |
| 7 7 E          | +  | 딁                          | H           | ╁              | $\vdash$ | H  | +        | ╁         | 1        |                | 55<br>56     | 5              | H         | $\dashv$  | _                                 | $\dashv$  | $\dashv$ | _         | Н        | -         | U        |           | 105<br>106 |          | Ξ        |           | $\exists$  | 7         | 1            | #         | 工         |
| a Sa           |  | =                          | $\prod$     | T              |          | П  | 1        | 1         | 1        |                | 57           | Ξ              | Ш         |           |                                   |           | 1        |           |          | ᅱ         |          | $\vdash$  | 107        | -        | =        | +         | ┥          | +         | +            | ╀         | +-        |
| α <del>D</del> | 1-1  | =                          | ╫           | +              | Н        | $\vdash$                                   | +        | +         | 1        | _              | 58<br>59     | 틜              | ₩         | 4         | 4                                 | $\dashv$  | $\dashv$ | _         | $\Box$   | $\exists$ |          |           | 108        |          | Z        | $\exists$ | 1          | <b>寸</b>  | 1            | 土         |           |
|                | 10   | =                          | $\parallel$ | 工              |          |  | 1        |           | 11       | - 10           | 30           | इ              | Ĭ         | $\exists$ | $\dashv$                          | $\dashv$  | +        | $\dashv$  | $\dashv$ | ᅱ         |          | $\vdash$  | 109        | $\dashv$ | 싓        | +         | +          | 4         | +            | +         | $\perp$   |
|                |  |                            | H           | +              | Н        |  | ╀        | +         |          |                | 11           | 27             | 4         | $\dashv$  | 4                                 | $\dashv$  | $\Box$   | $\exists$ | 7        | $\exists$ |          |           | 111        |          | Ž        | 士         | 1          | 1         | $\pm$        | $\pm$     | $\pm 1$   |
| Щ              | 13   |                            | I           |                |          | 士  | 土        | 上         |          | - 6            | 3            | 7              | +         | +         | +                                 | +         | +        | $\dashv$  | +        | $\dashv$  |          |           | 112        | +        | =        | +         | 4          | +         | +            | F         | $\Box$    |
| . 60           | 14 :   | -                          | ₩-          | +              | $\dashv$ | -  | +        | -         |          |                | Ψ]           | 7              | 1         | 1         | 1                                 | 7         | 1        | 7         | ユ        | $\exists$ |          | $\exists$ | 114        | 1        | 計        | $\pm$     | 1          | $\pm$     | +            | 十         | H         |
|                | 16   |                            |             |                |          | 士  | 土        |           | ŀ        |                |              | 7              | +         | +         | +                                 | +         | ╁        | +         | +        | $\dashv$  | +        |           | 115        | 4        | 4        | 4         | +          | +         | Ŧ            | F         | П         |
|                | 17 -<br>18 -   |                            | ₩           | +              | +        | +  | ╀        | Н         | -        | 6              |              | 2              | 7         | 1         | 7                                 | 7         | 7        | 1         | 7        | 7         | I        | T         | 117        | 1        | 1        | 土         | 1          | 土         | $\pm$        | 上         | Н         |
|                | 19 =   | _                          |             |                | 士        | 士  | İ        | Ы         | ŀ        | 6              | ų.           |                | +         | +         | +                                 | +         | +        | +         | +        | $\dashv$  | ŀ        | _         | 118        | +        | +        | +         | +          | 1         | F            | F         | $\Box$    |
|                | 20 L   | 4                          | ╟           | ╂┽             | +        | +  | L        | Н         | F        | 7              | 9            | #              | I         | T         | 7                                 | 1         | I        | #         | 丰        | ]         | t        | 1         | 20         | 士        | $\pm$    | 1         | 士          | $\pm$     | $\dagger$    | ┢         | Н         |
|                | <b>2</b>   | 扛                          |             |                | 1        | 土  |          | Н         | t        |                | 1            | 7              | +         | +         | +                                 | ╁         | ╁        | +         | ╁        | $\dashv$  | ŀ        | _         | 21         | +        | +        | -         | -          | +         | L            | $\Box$    | $\Box$    |
|                | 23 <sub>0</sub><br>24 <sub>0</sub>   |                            | ╀           | ++             | +        | +  | $\vdash$ |           | F        | 7:<br>74       | 3 1          | J              | Ţ         | T         | 1                                 | 1         | #        | ļ         |          | 1         | Į        | 1         | 23         | İ        | 土        | 1         | $\pm$      | $\pm$     | <del> </del> | $\vdash$  | Н         |
|                | 25 0   | П                          | T           |                | 土        | 土  |          |           | t        | 7:             |              |                | ┿         | +         | +                                 | +         | ╁        | ╁         | ╀        | ┨         | F        |           | 24<br>25   | +        | +        | $\perp$   |            | $\vdash$  | F            | П         | $\Box$    |
|                | 26 O   | _                          | ╀           | ++             | +        | - -  | Н        | $\dashv$  | F        | 76             | N            | 丌              | Ţ         | 1         | 1                                 | T         | I        | Ţ         | 1        | 1         |          | 1         | 26         | 1        | 1        | İ         | $\perp$    | t         | -            | Н         | Н         |
|                | 80   | П                          | İ           |                | 士        | 士  |          | $\exists$ |          | 78             | 1            | ١              | ╁         | ╁╴        | ╁                                 | +-        | ╁        | +         | ╀        | -         | $\vdash$ |           | 27<br>28   | +        | +        | +-        | 1          |           |              | $\square$ | $\Box$    |
|                | 29<br>30 /   | 뫁                          | +           | H              | +        | +-   | Н        | -         | F        | 79<br>80       | N            |                | T         | F         | T                                 | T         | L        | 1         |          | 1         | L        | 1:        | 29         | İ        |          |           | İ          |           |              | $\exists$ | -         |
|                | <b>D</b> _   | V                          | •           |                | 土        | 士  | Н        | 1         |          | 81             | K            |                | +         | ╁         | +                                 | ╁         | ╀        | ╀         | +        | ┨         | $\vdash$ | 113       | 30         | ╀        | ╀        | ╀         | L          | $\vdash$  |              | $\dashv$  | $\exists$ |
|                | 20   | 0                          | ╀╌          | ╁              | +        | -  | $\vdash$ | 4         |          | 83             | ľΝ           |                | L         | F         | T                                 | T         |          | L         | 1        | 1         | L        | 1;        | 32         | t        |          |           | L          |           |              | $\pm$     |           |
|                | 40   | 0                          |             |                | İ        | $\pm$                                      |          | 1         | -        | 84             | <u> 1, v</u> | ╁              | ╁         | ╁╴        | ╀                                 | ╁╌        | ╁        | ╀         | +        | ł         | H        | 13        |            | ╀        | ╀        |           | L          |           |              | $\dashv$  | 7         |
| 3              | 5 <sub>(2)</sub>   | 0                          |             | Н.             | +        | +  | $\Box$   | 7         | F        | 85             | l٨           | 1              | L         |           |                                   |           |          | L         |          | 1         | L        | 13        | 15         |          |          |           | $\vdash$   |           | Н            | $\dashv$  | $\dashv$  |
| 3              | 7 🗸  | Ž                          |             |                | İ        | $\perp$                                    | +        | $\dashv$  | $\vdash$ | 86<br>87       | 77           | $\vdash$       | ┞         | -         | ╀                                 | ┢         | ╀        | ╀         | ╀        | -         | H        | 13        |            | L        | F        | L         |            | П         | $\Box$       | コ         | 7         |
| 3              |  | 4                          | Н           | 1              | F        | $\Box$                                     | $\bot$   | 7         |          | 88             | lΝ           |                |           |           |                                   |           |          |           |          |           | L        | 13        | 8          |          | $\vdash$ |           |            | Н         | +            | +         | $\dashv$  |
| 4              | <b>0</b> 0   | O                          |             |                | $\pm$    | ╁┤   | +        | $\dashv$  | $\vdash$ | 89<br>90       | 72           | 1              | ├         | -         | ├                                 | -         | -        | ┞         | +-       |           | L        | 13        |            |          |          |           |            |           | 7            | ユ         | 7         |
| - 4            | -121   | $\stackrel{\checkmark}{=}$ | Н           | $\blacksquare$ | F        | П  | 7        | 7         |          | 91             | Ň            |                |           |           |                                   |           |          |           |          |           |          | 14        | 1          |          | $\vdash$ | Н         |            | $\dashv$  | +            | +         | -         |
| 14:            | 3 2  | 1                          |             | +              | ╁        | H  | +        | $\dashv$  | $\vdash$ | 91<br>92<br>93 | 2            | $\vdash$       | <u> </u>  | L         | <u> </u>                          | -         | -        | _         | -        |           | L        | 14        |            |          |          |           |            |           | コ            | 丰         | 1         |
| 4              |  | П                          | 4           | $\bot$         | Τ        | П  | 1        | 7         | L        | 94             | N            |                |           |           |                                   |           |          |           | П        |           |          | 14        | 4          | ┝        | Н        | Н         | $\dashv$   | $\dashv$  | +            | ╁         | 4         |
| 46             | 3 = 1  | ╫                          | $\dashv$    | +              | +-       | H  | +        | $\dashv$  | -        | 95<br>96       | Ν            |                | Н         | Н         | <u> </u>                          | H         |          | Ľ         | П        |           |          | 14        |            |          | П        | Ξ',       | $\exists$  | #         | 1            | #         |           |
| 47             | 1=1  | $\prod$                    | 7           | $\perp$        |          | H  | #        | ,         |          | 97             |              | =              |           |           |                                   |           |          |           | Н        |           |          | 14        | -1 1       | _        | H        | $\vdash$  | 2          | +         | +            | +         | +         |
| 49             | =  | H                          | +           | +              | +        | H  | +        | ₩         | -        | 98<br>99       | 4            | =              | _         |           |                                   | П         |          |           | 口        |           |          | 148       |            |          |          | コ         | 1          | $\exists$ | 1            | 士         | 1         |
|                | =  | Į                          |             | 上              |          | Ц  | 土        | 't        |          | 100            | П            | 13             |           |           | _                                 | $\Box$    | _        | _         | H        | ł         |          | 150       | ,          | $\dashv$ | $\dashv$ | +         | +          | +         | +            | +         | -         |
| (0/3/          |  |                            |             |                | lf       | mor  | e th     | an '      | 150      | dai            | ms           | Of             | 9 a       | ctio      | กร                                | sta       | ple      | ad        | ditio    | nai       | sh       | eet       | here       | e '      |          |           |            |           | Щ.           |           | J         |
| Je (           |  |                            |             |                |          |  |          |           |          |                |              |                |           |           |                                   |           |          |           |          |           |          |           |            |          |          |           |            |           |              |           |           |